

# PROGRAM: AS ENGINEERING SCIENCE

Division: Math, Computer, Engineering & Physical Sciences & Technologies  
TECH-106 (914) 606-6788

71 Credits

## Curriculum Chair

Professor John Collins

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TECH-106

Telephone: (914) 606-6941

Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_

Approved By Chairperson/Dean: \_\_\_\_\_

Course #	SEMESTER 1	Credits	✓
<b>ENG 101</b>	<i>Composition &amp; Literature 1</i>	3	
<b>MATH 181</b>	<i>Calculus 1<sup>1</sup></i>	4	
<b>PHYS 121</b>	<i>Engineering Physics 1 w Lab<sup>1</sup></i>	5	
<b>CHEM 107</b>	<i>Inorganic Chemistry 1 and Inorganic Chemistry 1 Lab</i>	5	

Course #	SEMESTER 3	Credits	✓
<b>MATH 230</b>	<i>Calculus 3</i>	4	
<b>MECH 126</b>	Statics	3	
<b>MECH 162/255</b>	CAD Or Solidworks	3	
	Engineering Elective-	3	
	<i>Humanities-</i>	3	
	<i>PE (fitness)-</i>	1	

Course #	SEMESTER 2	Credits	✓
<b>ENG 102</b>	<i>Composition &amp; Literature 2</i>	3	
<b>MATH 191</b>	<i>Calculus 2</i>	4	
<b>PHYS 122</b>	<i>Engineering Physics 2 w Lab</i>	5	
<b>CHEM 111</b>	<i>Inorganic Chemistry 2<sup>2</sup> and Inorganic Chemistry 2 Lab</i>	5	
<b>COMSC 101</b>	Computer Programming I	3	

Course #	SEMESTER 4	Credits	✓
<b>MATH 240</b>	<i>Differential Equations</i>	4	
	Engineering Elective-	3	
	Engineering Elective-	3	
	<i>Behavioral-</i>	3	
	<i>Social Science-</i>	3	
	<i>PE (sport)-</i>	1	

*Bold italic items are Core Requirements.*

## NOTES:

- Chemical - See Curriculum Chair
- **Civil & Mechanical** should take **MECH 227**: Dynamics – Pre-Req **MECH 126**: Statics, , **CIVIL 221**: Strength of Materials – Pre-Req **MATH 181**: Calculus 1 and **PHYS 101A**: Engineering Physics 1, plus 3 additional credits. See Curriculum Chair.
- **Electrical** should take **ELECT 224** Network Transformations (4 credits), **ELECT 255**: Circuits for Engineers – Co-Req **MATH 165**: Technical Math w Calculus; plus 3 additional credits. See Curriculum Chair.
- **Social Science** courses include History (HIS), Political Science (POLSC), Economics (ECON) and Geography (GEOG).
- **Behavioral Science** courses include Sociology (SOC), Psychology (PSYCH), Anthropology (ANTHR) and Geography (GEOG). General Psychology is the prerequisite for all upper level psychology courses.
- Choose **ONLY** those courses whose descriptions are labeled as “humanities credits” from: ART, COMM, DANCE, ENG, MUSIC, FILM, THEAT, ARAB, CHIN, FREN, GER, ITAL, JAPAN, RUSS, SPAN, PHIL.

<sup>1</sup> Calculus I is the prerequisite or co requisite Engineering Physics I & Lab.

<sup>2</sup> Inorganic Chemistry or an approved substitute